

# FAX TRANSMISSION

**DATE:** February 27, 2003  
**CLIENT NO.:** 21029-00182-US (US App. No. 09/343,684)  
**MESSAGE TO:** Examiner Vincent  
**COMPANY:** USPTO  
**FAX NUMBER:** 703-872-9790  
**PHONE:**  
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**PAGES (Including Cover Sheet):** 5 **HARD COPY TO FOLLOW:**  YES  NO

**MESSAGE:** UNOFFICIAL

Attached is an unofficial copy of our proposed response in response to the Office Action dated 12/4/02.

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**UNOFFICIAL****Docket No.: 21029-00182-US  
(PATENT)****IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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**In re Patent Application of:  
Alicja Borysowicz, et al****Application No.: 09/343,684****Group Art Unit: 1731****Filed: June 30, 1999****Examiner: S. Vincent**

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**For: APPARATUS FOR CONTROLLING GLASS MELTING AND/OR REFINING  
FURNACES**

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**REQUEST FOR RECONSIDERATION****BOX AF  
Commissioner for Patents  
Washington, DC 20231****February 27, 2003****Dear Sir:**

In response to the Office Action dated December 4, 2002, finally rejecting claims 10 and 12-18, the Examiner is requested to consider the following remarks.

**REMARKS**

Claims 10, 12-14, and 16-18 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Aoki (U.S. Patent No. 5,272,621) in view of Haissig (U.S. Patent No. 5,822,740) and Victor (IEEE Article). The Examiner relies upon Aoki for its teaching of using fuzzy logic with fuzzy prediction in a glass melting furnace. However, the claims are directed towards far more than that objective. Independent claim 10 includes a predictive network which defines various set point values assigned to furnace actuators. Storing operator set points corresponding to manual operation of the furnace actuators is also provided. A fuzzy logic controller is connected to a plurality of sensors, image means, the predictive network, and operator set point storing means and generates a plurality of output signals for respective actuators that will control melting in the furnace.